Potassium Hydroxide, 1M



Section 1

Product Description

Product Name: Potassium Hydroxide, 1M Science education applications

Synonyms: Caustic potash solutions, Potassium Hydroxide 1N

Distributor: Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;





Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 3

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 94

 Potassium Hydroxide
 1310-58-3
 6

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5

Ingestion:

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Potassium Oxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Do not flush spill to drain.

Handling and Storage Section 7

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the Handling:

environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and

inhaling dust.

Store locked up. Suitable for any general chemical storage. Storage:

Keep container tightly closed in a cool, well-ventilated place.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 Protection Information

ACGIH OSHA PEL Chemical Name (TWA) (STEL) (TWA) (STEL) Potassium Hydroxide N/A N/A N/A N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Respirator Type(s): NIOSH approved air purifying respirator with HEPA filter.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

Lab coat, apron, eye wash, safety shower.

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Gloves: Neoprene, Nitrile, Nitrile - Extra Thick (8 mm)

Section 9 Physical Data

Formula: KOH

Molecular Weight: 56.10 Appearance: Colorless Liquid Vapor Density (Air=1): No data available

Odor: None

Odor Threshold: No data available **pH**: 14

Melting Point: No data available

Boiling Point: No data available Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available

Specific Gravity: >1

Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: No data available. Exposure to moisture

Incompatible Materials: Water-reactive materials, Acids, Halogenated Hydrocarbons, Metals, Maleic Anhydride,

Moisture, Water, Peroxides

Hazardous Decomposition Products: Potassium Oxide Will not occur **Hazardous Polymerization:**

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Diarrhea, Coffee Ground Emesis, Vomiting, Respiratory Irritation

Delayed Effects: No data available

Acute Toxicity:

Water

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

7732-18-5 Oral LD50 Rat

90000 mg/kg

Potassium Hydroxide 1310-58-3 Oral LD50 Rat 273

mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAPotassium Hydroxide1310-58-3Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No information available Chronic: No information available

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: No data

Persistence: Dissolved into water

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Potassium Hydroxide 1310-58-3 96 HR LC50 GAMBUSIA AFFINIS 80 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1814 UN1814

Potassium Hydroxide Solution Potassium Hydroxide Solution

Class 8 Class 8 P.G. III P.G. III

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Potassium Hydroxide 1310-58-3 No 1000 lb 1000 lb final No No

RQ RQ (454 kg)

California Prop 65:

No California Proposition 65 ingredients

Section 16	Additional
	Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health